

Field Named Nurse of the Year

The highlight of the 68th Annual AARN banquet held recently in Calgary was the naming of Peggy Field as 1985 Nurse of the Year. The annual award recognizes a member who demonstrates extraordinary involvement and achievement in nursing.

For Dr. Field, Professor of Nursing, 1985 was a banner year. She was appointed a McCalla Professor and received a Rutherford Award for Excellence in Undergraduate Teaching. She and co-author Jan Morse published *Nursing Research - A Qualitative Approach*.

The nursing award is given in memory of Abe Miller, legal adviser to the AARN. Mr. Miller is the father of Associate Chief Justice Tevie Miller (who was also the AARN lawyer until he was appointed to the Bench), Chancellor-Elect of this University.

Barry Vogel presented the Nurse of the Year Award on behalf of the Miller family. □

Summer Publishing Schedule

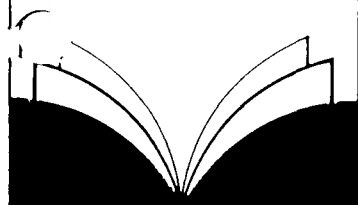
Folio will publish biweekly during July and August. The dates of publication are 10 and 24 July and 7 and 21 August.

The traditional deadlines—9 a.m. three weeks in advance of desired publication date for "Talks"; 3 p.m. one week in advance of desired publication date for classified and display advertisements—will not change.

On 4 September, *Folio* will again become a weekly. □

Contents

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- WISEST Summer Research Program



University of Alberta

FOLIO

University of Alberta

26 June 1986

Some Reflections on the Workings of Our University

The following is the substance of the Report to Convocation given on 5 June by Allan A. Warrack, Vice-President (Administration).

Mr. Chancellor, Mr. Board of Governors' Chair, Mr. President, Honorary Degree Recipients, Mr. Babey and Mrs. Scambler, Guests, Colleagues, Graduates and Your Families, and Friends of our University of Alberta.

There is so much that could be said at an occasion such as this—a special moment in the lives of our graduates and their proud families and friends. But it does not all need to be said at once. After all, I hope to be done talking as soon as you are done listening.

I shall try to express two things. One is to express some of what I *feel* about the University of Alberta. The other is to express some of what I *think* about the University of Alberta. In some academic literature of our time, feelings and intuitions can be described as "right-brain" nature, while the analytical thinking is "left-brain" stuff. If one perception is clear (to me) at this early stage of my University leadership role, it is that managing a modern, complex University is a "both-brain" task. Your and my President, Dr. Myer Horowitz, provides this needed leadership. I take this opportunity to thank President Horowitz for his support and assistance in these early months of my responsibility.

On the street where I live people ask about the University: What do you do? Why does it cost so much? In the cities, farms and towns where you live—I suspect people ask those same questions. Or they will. These are legitimate questions; I *think* there are equally legitimate answers. The University of Alberta is a public institution. It is large—nearly 24,000 full-time students. We strive to be publicly accountable in many ways; our strategic plan for the coming

decade (copies are available) is yet another means of accountability. We at your University realize that public perceptions underlie crucial public support for our public institution. We also realize that perceptions based on foundations of knowledge and understanding, rather than mere impressions, are reliable and long-lasting. Hence we *think* it vital, in every forum, including outreach efforts on our part, to explain what we do at the University of Alberta and why the level of investment costs of University education. Allow me to explain.

What do we do? What is our business? We are in the knowledge business. This is serious business, and I assure you, we mean business. Knowledge, intellectual capital and property, is our public service product. There are three basic functions to our knowledge business: marketing, storage, and production.

Teaching involves a transaction of knowledge. This marketing function occurs in more ways, and between more people and organizations, than might be perceived without serious attention and thought. In addition to conventional classrooms and seminars, the University of Alberta has broad-based Extension and Technology Transfer commitments. Besides student-professor learning, there is student-student and staff-staff learning. Government, many business and farm enterprises, and many non-student citizens benefit from access to the knowledge pool at the University of Alberta. We invite you all to enrich your lives with what your University can provide. Graduates—your lifelong learning has just begun rather than ended.

Universities store knowledge—a second basic function. Like inventory for a business enterprise, ready availability of knowledge (old and new) is imperative to the University. Greatness eludes any

University that fails to have a great library. Despite severe exchange rate cost impact, this heart of the University is being pumped to the extent resource limits can allow. But there is more! Computerization is here and we should welcome it with zeal; I utilize my office computer many times each day. Think of the knowledge storage possibilities. Beyond books and periodicals and computers, the bright minds of University staff (from biotechnology to educational techniques to . . .) store vast, useful and accessible knowledge. There is nothing more practical than good theory.

I have mentioned the transaction of knowledge and the storage of University knowledge. I reserve for special attention a third function of the University of Alberta's business—production, that is, research. Universities create new knowledge through research. We add to intellectual capital and property. Could anything be more exciting? Fully half of the technological change in all of human existence has taken place in the last three generations. For people the age of my parents, existing lifetimes can encompass such enormous change.

Yet there is more to be said about University research. University research is in the public interest. Research is important for both results and methodology. It is the primary means by which we can be first into the future, not last out of the past. Often I am asked: What is the difference between the University and other post-secondary institutions? The answer: research.

The foregoing (all too briefly) tells the essence of what we do. Remember the second question—why does it cost so much? Why do universities always seem to be asking for more money? On other occasions, I shall develop my thoughts more fully. Today, I offer three stark points:

26 June 1986

1. University funding is investment in nature; it is not consumption expenditure.
2. Research is the most expensive of the University knowledge functions; yet research is the distinguishing characteristic of universities.
3. Hear the music in the University requests/complaints about funding needs; silence would be a measure of complacency, and the "noise" is a measure of ambition and desire to provide even more University public service.

There is a bottom line: those who consider education expensive should consider the price of ignorance.

Beyond those comments on what I think about University mission/business, there are two feelings I want to express. I invite our new graduates, along with their families and friends, to share these positive responses. One has to do with opportunity; the University is a "bootstrap" of access to a future exceeding your wildest dreams. The self-help opportunity is both an economic and social bootstrap. It was for me. It will prove to be for many of you. Let it

happen. University support is a way to help others willing but in need of opportunity for self-improvement. Graduates—you are our new University of Alberta shareholders. I can't help but remind you that we give high priority to Alumni and to Fund Development—we'll be "back to you" on these matters.

The second feeling is that of pride. Pride as a Canadian, Albertan and University of Alberta graduate. This feeling includes my home rural community of Langdon; after several years of crazy growth, the population now exceeds 100! I spent some time in New York City. To my dismay, I discovered no one in New York City had heard of Langdon. But then I realized it was okay, for none of us from Langdon had heard of New York City either.

Graduates, congratulations. You are our product; we're proud of you; you belong to us. And we belong to you. We are in this thing together.

We, your University of Alberta, strive to be as good as we can be. We strive to be accountable and to improve and with your understanding and support, we will do even better . . . and better . . . and better! □

Board of Governors Determines Rise in Tuition Fees

The latest meeting of the Board of Governors took place on Friday, 13 June, at the University's Devonian Botanic Garden. Several items were discussed, debated and decided. Foremost among them were approval of the 1986-87 preliminary operating budget and a 3 percent increase in tuition fees; notice of appointment or re-appointment of department chairmen; and approval of major renovations to HUB Mall.

Operating Budget

The Board approved a preliminary operating budget providing for revenues and expenditures totalling \$242,660,000 in 1986-87. In coming to this figure the Finance Committee and the University's administration were governed by several principles and necessities. This year for the first time the University has aimed at a balanced budget rather than one which yields a 2 percent surplus at year end. Established in the budget is a "Budget Adjustment Fund" of approximately 1 percent. This will allow for the re-allocation of resources to meet special needs, particularly in the teaching Faculties but also in such areas of administration as the Fund Development Office. (No "stringency tax" has been imposed this year but may be necessary if there is any future decline in real resources available to the University.)

The budget is based on a projected very slight decline in enrolment, from approximately 23,800 to 23,500 full-time students; a 4 percent increase in the Province of Alberta operating grant; a 3 percent increase in tuition fees—the maximum increase allowed according to a government-approved formula; the need to provide for a reserve against inflation—negotiations with the support staff association were not settled at the time of the Board meeting; and a base allocation of \$1.4 million to Arts, Science, and Graduate Studies and Research as a result of significantly increased enrolments in those areas over the past four years.

As could be expected, the undergraduate student members of the Board voiced their concerns over the tuition fee increase. SU President Dave Oginski, while recognizing the reality that students should pay for a part of their education, wondered at a

formula which allows only for a maximum increase this year of 3 percent. He suggested that an increase in tuition fees, as a result, could be as high as 6 percent. The benefits of the formula, however, were made clear. Tuition fee increases cannot exceed 12 percent in any one year and the University remains opposed to massive increases of the sort recently experienced by students in Ontario. (In passing, President Horowitz observed that provinces with left of centre governments have yet to abolish tuition fees.)

Department Chairmen

Geoffrey J. Butler will assume the chair of Mathematics for a five-year term. Dr. Butler received his education at University College, London, and joined the University in 1971.

David Cook was re-appointed to head Pharmacology. He obtained his degrees from Oriel College, Oxford, and came to campus in 1970. He served as acting head in 1980-81 before becoming Pharmacology's chairman in 1981.

Alfred Fisher will direct the Music department for a five-year term (he has been associate chairman since 1984). He received his undergraduate degree from Boston University and obtained his graduate degrees from Michigan State University. Dr. Fisher joined the faculty in 1978.

Jason Montgomery will chair Family Studies for two years. He came to campus in 1974 and received his degrees from Kent State University and the University of Massachusetts.

Peter Olley joins the University as chairman of Paediatrics. Dr. Olley comes to us from Toronto where he was Director of Cardiovascular Research Focus at the Hospital for Sick Children. He studied for his degrees at the University of London.

David Sharp was re-appointed to the chair of Philosophy for a five-year term. He joined the department in 1973 and became chairman in 1983. Dr. Sharp is a graduate of the University of British Columbia and of Princeton.

HUB Renovations

As most *Folio* readers are aware, the Housing Union Building (HUB) is in need of massive renovation. In all, there are 13 major tasks to be performed. These are needed to

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University
of
Alberta

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Classified advertisements: 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.
Display advertisements: 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

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improve safety standards in the building, repair the leaking skylight and roof system, provide for better materials handling facilities, and provide for additional space by the enclosure of the street level beneath the building. In addition, there will be a gradual refurbishing of HUB's central quarters. The projected cost of this work to be completed by the early '90s will be just over \$12 million.

While further information about HUB's renovations will appear in future issues of this bulletin, it should be noted that there was great trepidation about the massive cost of the project. The University's resources are limited, so that funds assigned to one project obviously are not available for another—Lister Hall and the Faculté Saint-Jean residences are buildings whose condition leaves a lot to be desired. Also, it was noted that capital support for such renovations provided by the Province in no way meets the total cost. Thus, the University might not be able to afford accepting such monies.

Extension Honors Certificate Recipients

For nearly 30 years, the Faculty of Extension has offered a variety of business certificate programmes intended to better equip individuals in the workplace for career development.

This year, 249 persons completed programmes offered by the Faculty in Management Development; Management Development for Professional Engineers, Geologists and Geophysicists; Personnel Administration; Computers and Business Data Processing; Real Estate; Public Administration; Applied Land Use Planning and Occupational Safety.

On 6 June, 159 of these graduates were presented with their certificates at the annual Certificate Programmes Graduation Ceremony, held at Convocation Hall, while proud family members and friends looked on.

Amy Zelmer, Associate Vice-President (Academic), brought greetings from the University, and commended the graduates for the special achievement of having successfully completed these demanding programmes while managing to maintain career and family life.

Following the ceremony, the Faculty hosted a wine and cheese reception at the Faculty Club. □

Other Matters

Several other matters were dealt with by the Board. For the first time, the Students' Union and the University have formalized an agreement relating to the Students' Union Building. This agreement, signed with ceremony at the 13 June meeting, will last for 40 years in the first instance, with options for renewal every 10 years thereafter. (Copies of the agreement are available in the Office of the Vice-President, Administration.)

The Board approved a subsidy to the University and Community

Day Care Society which operates a day care centre in the Windsor Park Elementary School. This subsidy amounts to \$5,000 for capital needs and \$15,000 assistance for the centre's 1986-87 operations. The Board will review its policies concerning support for University-associated day care centres. There are currently four such operations: HUB, Michener Park, Windsor Park and, most recently, Garneau.

It was announced that Jim Parker, University Archivist, has assumed the role of Director, University Archives and

Collections. Helen Collinson will remain with Collections but devote most of her energies to the Ring House Gallery and associated matters.

Congratulations were accorded R.U. Lemieux on the award of honorary degrees by McMaster University and by the Université de Sherbrooke.

Finally, during a tour of the Devonian Botanic Garden conducted by its Director Pat Seymour, the President and Chairman of the Board planted a tree. □

Kreisel Wins Sir Frederick Haultain Prize for Fine Arts

On 23 June at Government House, Henry Kreisel was awarded the Sir Frederick Haultain Prize (Fine Arts category) for 1986.

The prize, part of the Alberta Heritage Scholarship Fund, is awarded annually in recognition of exceptional accomplishments that have benefited residents of Alberta, and a prize of \$25,000 is bestowed on an outstanding citizen or group in Fine, Applied or Performing Arts; in Social or Physical Sciences; and in Education or the Humanities.

Other Haultain Prize winners were Audrey Morrice of Calgary (Humanities) and Menno Boldt of Lethbridge (Sciences).

The recipients were announced on 18 June by Advanced Education Minister Dave Russell.

At that time, Leon Lubin, Director of the Alberta Heritage Scholarship Fund, stated:

"Dr. Kreisel, who is a talented writer, teacher and administrator, is recognized for his work in Fine Arts. His most significant contribution to Canadian literature has been the bridging of the two worlds of Europe and Canada. Through the use of 'ordinary' people in his novels and short stories, Dr. Kreisel depicts the effects that the sudden violent events of the twentieth century have had on both sides of the Atlantic Ocean. He has also written many articles and essays on literature and culture which have been translated into numerous languages.

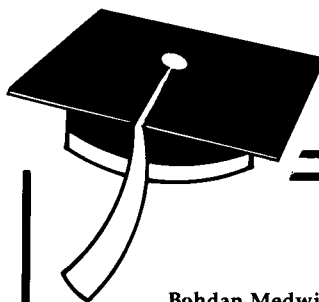
"Henry Kreisel was born in Vienna and received his early childhood education there. He left Vienna in 1938, after the Nazi invasion of Austria and went to England. Two years later he immigrated to Canada to study, teach and develop his writing skills.

"His first attempt at writing was a diary he kept during his wartime internment. It proved to be a rare record of a sparsely documented event and, to Dr. Kreisel's surprise, it sold out rapidly.

"Even in his earliest works, Dr. Kreisel wrote about injustice and hate, the tragedy and the joy that every life contains, and the desire for a better world. And as he settled into his new life in Canada, his literary skills altered and developed. Two novels, *The Rich Man* and *The Betrayal* and a

collection of short stories *The Almost Meeting*, reveal him as a writer willing to confront the major spiritual and ethical issues of our century. As well as writing many articles and essays, which have been translated into a number of languages, Dr. Kreisel is the author of plays for radio and television.

"In addition to his accomplishments as a writer, Dr. Kreisel has enjoyed an illustrious career as a teacher and administrator at the University of Alberta." □



Activities

Bohdan Medwidsky (Slavic and East European Studies) organized a session on "Folklore and Folklore Studies in Ukraine" for the Conference on

Contemporary Ukraine Selected Topics at the University of Illinois, Urbana - Champaign, 9 to 11 June. At this session, he presented a paper on "Soviet Ukrainian Views of North American Folklore Studies." A colleague, **Andriy Nahachewsky**, presented a paper at the same session titled "The Journal *Narodna trovchist' ta etnoprofiiia*" . . . **Alexander Matejko** (Sociology) is spending May and June in the Verwaltungsschule Speyer, West Germany, on the exchange program sponsored by DAAD. In August, he will chair two sessions at the World Congress of Sociology in New Delhi . . . **Leszek Kosiński** (Geography) presented an invited paper at the international symposium "Refuge or Asylum: a choice for Canada" held at York University. He also attended an annual meeting of the Polish Institute of Arts and Sciences in New York and gave an invited paper on "Recent Demographic Changes in Poland."

Our Engineers' Car Wins Places in Two Competitions . . .

What can you do with a small, uncomfortable, one-seater, three-wheel car with an engine the size of a lawnmower motor?

You can get more than 1,200 miles per gallon, for starters, and then you can win places in two North American fuel economy competitions. And that's what our inventive engineers have done.

Two groups of mainly fourth-year students taking a project course in Mechanical Engineering designed and built the vehicle themselves, one group working on the engine and the other on the body.

Entered in the Shell Fuelathon, held in Oakville, Ontario, at the end of May, the car's mileage was 1,231.1 miles per gallon (on a flat racing circuit) and it was placed fifth out of 20 entries. (Sixteen vehicles successfully completed the competition.)

At the Society of Automotive Engineers (SAE) Super Mileage Competition in Marshall, Michigan, in early June, the racing track was a heavy truck test track and included hills. Fuel consumption then was 1,208 miles per gallon—and the car was placed third out of about the same number of entries as at Oakville.

Both competitions were attended by university students from both sides of the border, with entries predominantly Canadian in the first one, and predominantly American in the second. As well as the honour and glory, prizes were a certificate and \$1,100 expense money (for travelling) in the Shell race; a trophy and \$115 (U.S.) from SAE in the second.

The prize-winning vehicle is 10 feet long, 2 1/2 feet high and 2 feet wide, says David Checkel (Mechanical Engineering) under whose benevolent eye the project took shape. There's room for only one person—the driver—who has to be small. The engine is a small Briggs and Stratton utility engine (about the size of a lawnmower motor), rebuilt to a very good standard to get better mileage, and with a Honda mini-bike head in place of the original one. (Now they call it a Briggs and Honda.) It produces about 4 h.p. and uses normal gasoline—although in the competition iso-octane was used. Its three wheels are fitted with very high pressure racing bicycle tires—to reduce rolling friction. The smooth, fibreglass body is aerodynamic, and the windows are made of the shrink wrap that's used for insulating house windows.

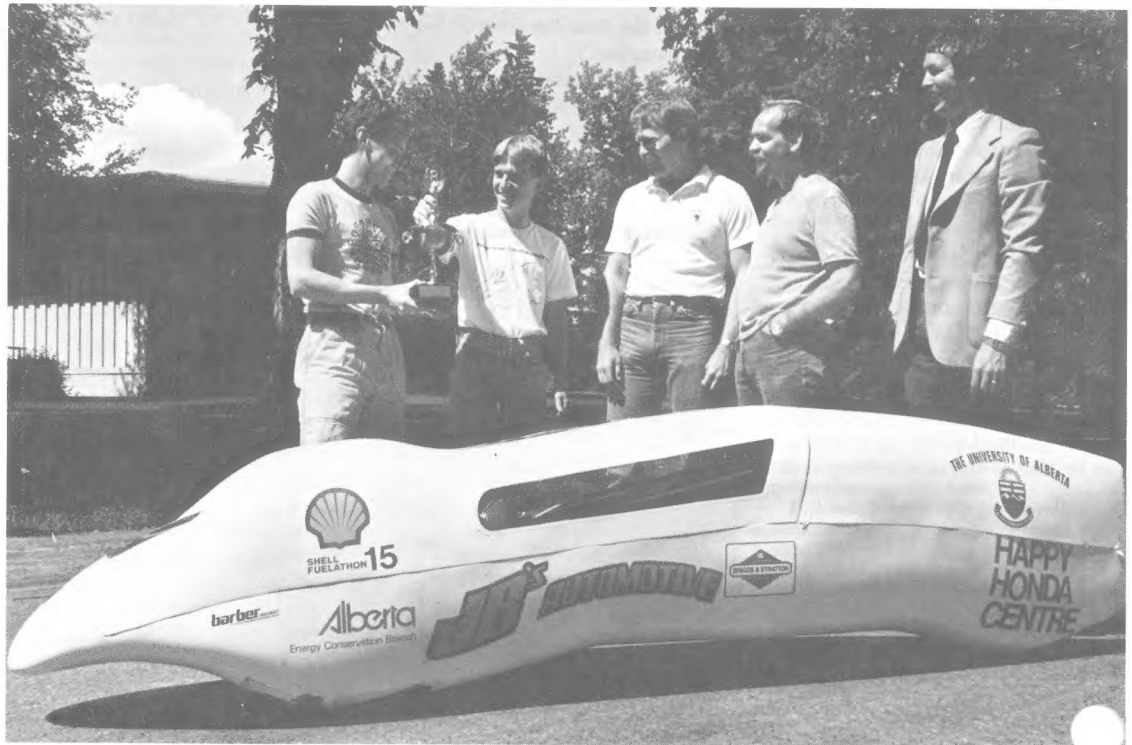
"Our students came up with all the ideas themselves," said Checkel.

"They designed the vehicle from scratch and built it over the last five months. A grant from the Students' Union—particularly useful because it came early in the year—helped get the project under way. The students had some

assistance in construction from the machine shop and technicians, but it was mainly their own labor.

"They have taken logical, good ideas and pushed them to their limit," he added. "What we have now is a small, uncomfortable,

special-purpose vehicle—but these ideas could be applied to car manufacture. And next year's fourth-year students will be able to develop the car further, because they won't be starting from scratch." □



Towering over their specially-designed car, driver Kerry Checkwitch (second from left) and Russ Modien (centre), prime movers in the project, admire the SAE trophy with (left to right) Simon Monckton, Allan Wilson and David Checkel. Others involved, but not in the picture, were George Ayer, Paul Lange, John McIntyre, Edson Ng and Wilson Ng.

. . . And Our Engineers' Steel Cable Splicer Wins Design Competition

When Gary Faulkner (Mechanical Engineering) was looking for a worthwhile project for students in his fourth-year design course, he asked Syncrude Research to come up with a problem important to them that his students could work on.

Finding a faster way to splice steel cables, was the task suggested.

Three students set to work on the project in January. In early June, the working model of their problem-solving design won first place (and \$250) in the Canadian Society for Mechanical Engineering National Student Design Competition held at the Université de Sherbrooke. (Of the original seven entries, only five turned up at the competition.)

The automated tool that Brad Berteau, Greg Dannish and Remy Dawson designed can splice steel cable in less than a minute. This is an enormous improvement on the

method Syncrude currently uses, which takes at least half an hour.

"What needs to happen next," says Berteau, "is for the tool to be made in metal and tested and refined. We hope to convince Syncrude that the project is viable

so that they are prepared to make a prototype. Judges at the competition were really interested in it because it is useful and tied into an industrial use. It is something real, not theoretical." □

Help Prevent Vending Vandalism

The following statement has been issued by David Bruch, Director, Housing and Food Services.

The University of Alberta has been experiencing an increase in vending machine vandalism and theft of coinage. The only way to control this kind of crime is by members of the University community assisting Campus Security. Anyone who witnesses an act of vandalism is asked to call Campus Security immediately.

Edmonton Coin Vending, the University's vending contractor, has offered a \$100 reward to anyone who forwards information which leads to a conviction under either civil law or the Code of Student Behaviour.

Technology Transfer Agreement With Calgary Firm to Put Highly Practical Grasses on Market

A Professor of Genetics at our University since 1957, Jan Weijer of late, become something of a nan. That's because the microbial geneticist has developed three native grasses to the point where commercialization is just around the corner. Owing to the recent signing of a technology transfer agreement between the University and The Professional Gardener Co. Ltd. of Calgary (the University will enjoy a royalty on the amount of seed produced), Dr. Weijer is helping to promote *Agropyron subsecundum* and two varieties of *A. trachycaulum*. Samples have been transferred to the South Peace River town of McLennan and will soon be seeded on 50 acres of Professional Gardener land. The product should on the market in about two years, assuming weather conditions are favorable.

Dr. Weijer, who has conducted research on the grasses since 1974, feels that buyers, who will, in all likelihood be environmentalists, will receive top value for their money. The "exceedingly drought resistant" sub-alpine grasses can be used to revegetate grazing land has been afflicted by salinity, rehabilitate land that has been marred by mining, oil well and pipeline operations, and to beautify highway allowances. Added selling points are erectness, the ability to adapt readily to local soil and environmental conditions and a "stay at home attitude," which is to say that the grasses are bunch grasses and won't creep into flower beds or other places where they aren't wanted.

Hans Johansen, President of The Professional Gardener, anticipates international sales (China has already made enquiries) because the grasses are exceptionally winter hardy. During the course of the 10-year agreement with the University, Mr. Johansen said as many as 2,000 acres could be seeded.

The Professional Gardener is essentially a specialty products company; materials to combat soil erosion are always in stock.

This native grasses account started in 1974 when Dr. Weijer, with the assistance of Drs. D.G. Walker and R.S. Sadasivaiah, set collecting, increasing and maintaining a seed source of grass species native to the eastern slopes of Alberta's Rocky Mountain region. Thirty-six species were gathered and transplanted to the University's Genetics Field

Laboratory at Ellerslie.

Subsequently, 16 native grass species were selected for breeding studies. When the study was done, the species were transferred to the environmental Centre at Vegreville for yield test determination and licensing application.

The criteria used for the project were: wide adaptability; high yield of seed production; high forage value; low seed shattering; large seed size; disease free varieties and low forage production.

An objective, which might have seemed rather lofty at the time, was "to improve these selected species to the point that economic seed production is feasible."

Research in the early stages was

funded by the Research Secretariat of Alberta Environment. Research into cultural practices, native seed supply and evaluation of native grasses was jointly funded (by contracts) by Fish and Wildlife of Alberta Recreation Parks and Wildlife, the Forest Development Research Trust Fund of Alberta Energy and Natural Resources and Parks Canada, Department of Indian and Northern Affairs. Since 1983, the project has been solely supported by Parks Canada.

R.E. Armit, Director of Research Services, told *Folio* that other grasses currently being developed by Dr. Weijer have the potential to become part of similar technology transfer agreements. □



Dr. Weijer in his element. The 1983 recipient of the Alberta Achievement Award for excellence in genetics is a prominent figure at the field laboratory at Ellerslie.

Folio

Display Advertising

Folio is the official news publication of the University of Alberta, published every Thursday throughout the year (except for July and August when it appears bi-weekly). It has a regular distribution of 9,000 of which 7,800 copies are circulated to teaching and support staff, to graduate students and to other interested people on campus. The remaining copies are sent to provincial and municipal government personnel, news outlets, and businesses and people off-campus.

Sizes and rates

The basic unit size is 27 agate lines x 23 picas (3 7/8" x 2"). The full page is divided into 10 such units, any combination of which is available at a cost of \$35 per unit (minimum 1 unit). Half page cost: \$175. One column cost \$87.50. There is a 15% discount for University departments. A 10% discount is offered for five or more consecutive insertions.

Other specifications

Half-tones (100-line screen or less) are acceptable; no color or bleeds. Camera-ready copy is necessary; there is a charge of 30c per word for typesetting, and \$7.50 for adjustment of design work.

Deadlines

Deadline for submission is 3 p.m. one week in advance of desired publication date. Acceptance of advertisements and positioning are at the discretion of the Editor. For more information, telephone (403) 432-2325 and ask about *Folio* display advertising, or write to: *Folio* Display Advertising Office of Public Affairs 423 Athabasca Hall University of Alberta Edmonton, Alberta T6G 2E8

Faculty of Science Honors Ralph Nursall

Excellent teachers leave a lasting impression of the subject matter they teach and are long remembered by their former students. J. Ralph Nursall, Professor of Zoology, is just such an individual and, in recognition of his outstanding teaching contributions, has been awarded the 1985-86 Faculty of Science Award for Excellent Teaching.

Since joining the University of Alberta in 1953, Dr. Nursall has taught in more than 20 zoology and biology courses, covering more than 10 subdisciplines in biology. This represents an exceptional breadth in excellent teaching. Through his articulate, enthusiastic and often innovative presentations in the classroom as well as the laboratory, Dr. Nursall enlivens the subject matter. The impression is lasting, as zoology graduates frequently cite courses taken from Dr. Nursall as being among the best, if not the best, of all courses taken during their program.

In addition to being an excellent teacher, Dr. Nursall has made many important contributions to the development of teaching programs. He also devoted energy to bringing biology to the public through numerous teaching contributions to Extension courses. As a reflection of his breadth of interest, he developed a course on Science and Public Policy for the Canadian Studies program.

A native of Saskatchewan, Ralph Nursall received a BA (1947) and MA (1949) from the University of Saskatchewan, and a PhD (1953) from the University of Wisconsin. Dr. Nursall served as Chairman of

Zoology (1964 to 1969, 1974 to 1978) and Coordinator of the Introductory Biology Program (1969 to 1974). He is currently the President of the Biological Council of Canada.

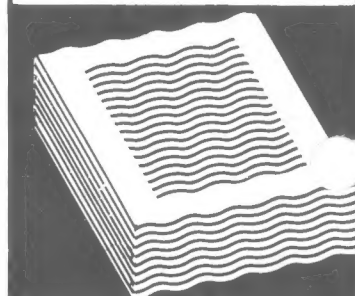
Dr. Nursall continues an active research program in marine biology, with primary emphasis on tropical reef fishes. Earlier research

interests included limnological studies on Alberta lakes and anatomical and behavioral studies on fishes. He has supervised 17 MSc and 10 PhD students. Dr. Nursall was in the field doing research when notice of the award was formally announced at the Faculty of Science Council Meeting on 23 May. □



Dr. Nursall (left) receives the award from W. John McDonald, Dean of Science.

Currents



Prentice Hall Can Record Texts for Blind Students

Prentice Hall Publishing, in cooperation with Recordings for the Blind, a Princeton, New Jersey, firm, will arrange to record any Prentice Hall textbooks in use on campus and make them available to blind students.

The campus representative for Prentice Hall is Ray Friedman, 434-2054.

Surplus Sales Auction

A surplus sales auction will be held on Tuesday, 15 July, at 6 p.m. Previewing from noon to sale time. Watch for posters listing equipment.

Full details from Jody Brookwell, Materials Management Department, 432-5393.

National Student Conference on Northern Studies

The above conference has been scheduled for 18 and 19 November 1986 at the Conference Centre, Ottawa. Deadline for abstracts is 1 September (papers by 1 October).

For more information, telephone the Boreal Institute for Northern Studies, 432-2204.

Talks

Medicine

26 June, 4 p.m. E. Daniel, Department of Neurosciences, McMaster University, "Non-cholinergic, non-adrenergic Mediators of Gut Motility." 4H202 Mackenzie Health Sciences Centre.

Chemistry

27 June, 10:30 a.m. Satoru Masamune, Chemistry Department, Massachusetts Institute of Technology, Cambridge, "Organic Synthesis with Chiral Reagents." E1-60 Chemistry Building.
27 June, 1:30 p.m. Rafael Oriol, Director, Institut d'Immunobiologie, Broussais Hospital, Paris, "Genetics and Biochemistry of the Human ABO, Lewis and Related Antigens." E1-60 Chemistry Building.

Library Science

3 July, 1:30 p.m. David Jenkinson, F& of Education, University of Manitoba, "Current Research in the Field of Children/Young Adult Librarianship." 3-06 Rutherford South. Visitors from the University community are welcome to attend. Advance notice by telephone would be appreciated (432-4578).

WISEST a Practiced Turner of Tables

Early in July, 26 grade 11 students will begin a six-week research project in a discipline which has traditionally attracted few members of their sex.

Under the supervision of interested University staff, the students will gain first-hand exposure to the research environment. Girls will work in the Departments of Physics, Chemistry, Zoology, Computing Science, Genetics and Microbiology, and in Electrical, Mechanical and Civil Engineering. Boys will work in the Departments of Family Studies and Nursing/Psychology.

In addition to their research work, the students will have an

opportunity to meet with women and men in non-traditional fields, talk to career counsellors and become more aware of the range of opportunities open to students with an affinity for mathematics and science.

The six-week project, sponsored by the Task Force on Women in Scholarship, Engineering, Science and Technology (WISEST), is designed to encourage students of above average achievement to enter into non-traditional, science-oriented careers.

The project, which was started in 1984, is funded by grants from the Winspear Foundation and the Office of the Vice-President (Research). □

The Next Decade and Beyond: A Plan for the Future

If you have not yet received a copy of this major discussion paper, please telephone or write to the Office of Public Affairs, 423 Athabasca Hall, Edmonton, Alberta T6G 2E8 (tel. 432-2325)

Pharmacy and Pharmaceutical Sciences

8 July, 3:30 p.m. J.D. Young, Department of Biochemistry, The Chinese University of Hong Kong, "Red Cell Amino Acid Transport: Biochemical, Physiological and Genetic Aspects." 7-62 Medical Sciences Building.

The Arts

Ring House Gallery

Until 29 June. "Against Great Odds—Posters of Nicaragua"—82 posters from and about Nicaragua tell the story of the Sandinista revolution in 1979.

Until 29 June. "Jacques Hnizdovsky—Woodcuts and Linocuts"—24 woodcuts and linocuts by the Ukrainian-born artist.

Bruce Peel Special Collections Library

Until 31 July. "Publishers' Bookbindings in Cloth: Some Pictorial and Geometric Designs." Open Monday to Friday, 8:30 a.m. to 4:30 p.m. B-7 Rutherford South.

Edmonton Film Society

7 July, 8 p.m. The Hollywood Musical, "Funny Face" (1957). TL-11 Tory Lecture Theatre.

14 July, 8 p.m. "Presenting Lily Mars" (1943).

Broadcasts

Radio

CM 88.5, Campus Radio. Eclectic programming, including folk, jazz, new music, rock and U of A news and sports coverage. See *Airtight* magazine for full programming details. Send public service announcements to 224 SUB, 432-5244.

Award Opportunities

The Izaak Walton Killam Memorial Scholarships 1987-88

Value: \$13,000 (1986-87) and renewable on evidence of satisfactory performance in a master's or doctoral program in all disciplines within the Faculty of Graduate Studies are tenable at Dalhousie University. *Qualification:* Eligibility is based on a First Class

undergraduate degree in the field of study the student wishes to pursue. No remission of fees accompanies the scholarships but travel assistance to Dalhousie is available. Scholars may perform instruction or demonstration duties at the discretion of the department, for which additional remuneration is given. *Application:* Candidates are not required to submit application forms for the Killam Memorial Scholarships, but should apply for admission to the Registrar, Dalhousie University, Halifax, Nova Scotia, as early as possible. On the basis of the information supplied in the application, the graduate department concerned will nominate the scholar to a selection board for consideration and nomination for a Killam award.

The Izaak Walton Killam Post-Doctoral Fellowships 1987-88

Value: Fellowships valued at \$24,000 (1986-87); plus travel allowances, are tenable for one year at Dalhousie University in most fields of study. Application for extensions may be considered. *Qualification:* Applicants should have recently completed a PhD degree at a recognized university, or expect to obtain a degree before taking up an award. Fellows may engage in teaching or other similar duties in the university. *Application:* Application forms may be obtained by writing to: The Office of the Dean, Faculty of Graduate Studies, Dalhousie University, Halifax, Nova Scotia B3H 4H6. The closing date for receipt of applications is 15 December 1986.

Positions

The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Academic

APO, Faculty of Home Economics

An Administrative Professional Officer is required for one year (1 September 1986 to 31 August 1987) to manage practicum placements; liaise with professional organizations; chair the Faculty Continuing Education Committee and teach one three-credit course in communications.

Qualifications: an MSc in Home Economics.

Salary range: \$26,979 to \$40,469.

Applications to: D.R. Badir, Dean, Faculty of Home Economics, University of Alberta, Edmonton, Alberta T6G 2M8.

Deadline for applications: 30 June 1986.

Periodicals and Micromaterials Librarian

The University of Alberta invites applications for the position of Periodicals and Micromaterials Librarian. Reporting to the Public Services Coordinator, Humanities and Social Sciences Library, the Periodicals and Micromaterials Librarian directs public service activities and technical service operations of the Periodicals and Microform Centre. This includes selection and development of staff, budget preparation, space planning and overseeing the level and quality of service. The incumbent is responsible for the management of a large periodical and microform collection with authority over the continuation budget, including the coordination of periodical selection and the selection of major micromaterial purchases. Other responsibilities include faculty liaison, bibliographic instruction and the provision of reference services.

The successful candidate will have a degree in Library Science, as well as a degree in the Humanities or Social Sciences. In addition, candidates should have a thorough knowledge of periodical and/or micromaterials collection development as well as the technical services procedures involved in the management of such a collection.

The position is classified at the Librarian III level with a current salary range of \$35,044 to \$43,052 per annum. Candidates should send a curriculum vitae, transcripts of academic record and the names of three references to: J. Teskey, Personnel Officer, Cameron Library, University of Alberta, Edmonton, Alberta T6G 2J8, prior to 14 July 1986.

Bibliographic Instruction Librarian, Information and Reserve Centre

The University of Alberta Library invites applications for the position of Bibliographic Instruction Librarian. Reporting to the Area Coordinator, Information and Reserve Centre, the incumbent is responsible for the development and administration of general library orientation and instruction programs offered by the IRC to students, faculty and community users. These programs include new student orientation, basic library skills instruction and special instruction for international students and mature students. The incumbent will coordinate the preparation and production of printed materials and audiovisual programs used for publicity and instruction and will take a significant role in the presentation of programs. Administration of programs includes training and evaluation of other library staff instructors, scheduling, equipment and materials planning, budgeting and reporting. The incumbent will also provide scheduled reference service, participate in training of new public service staff and in the development of end-user instruction for online searching.

The successful candidate will have a degree in Library Science and several years of public service experience, with an emphasis on orientation and instruction programming.

This is a two-year term position at the Librarian I or 2 level with a salary range of \$25,792 to \$40,764, depending on qualifications. Candidates should send a

curriculum vitae, transcripts of academic records and the names of three references, by 25 July 1986 to: J. Teskey, Personnel Officer, Cameron Library, University of Alberta, Edmonton, Alberta T6G 2J8.

Cataloguer

The University of Alberta Library invites applications for the position of Curriculum Cataloguer. Principal duties consist of the original cataloguing of curriculum book and non-book materials, directing the work of the Library Assistant responsible for cataloguing curriculum material for which derived copy is available, liaison with the Curriculum Library, and spending some time on the Education/Curriculum Reference Desk. The successful candidate will have a degree in Library Science. Previous cataloguing experience, knowledge of French, and subject background in education highly desirable.

This is a temporary position with a minimum term of one year. The position is at the Librarian I level with a salary range of \$25,792 to \$32,582. Candidates should send a curriculum vitae, transcripts of academic records and the names of three references, by 11 July 1986 to: J. Teskey, Personnel Officer, Cameron Library, University of Alberta, Edmonton, Alberta T6G 2J8.

Non-Academic

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. These vacancies cannot be guaranteed beyond the date of publication.

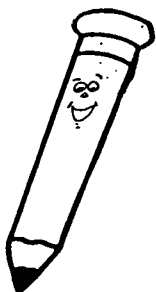
Clerk Typist II (Term to 31 January 1987) Provincial Lab, (\$1,190-\$1,478)
Purchasing Clerk II, Faculty of Extension, (\$1,326-\$1,666)
Student Record Processing Clerk, Faculty of Extension, (\$1,326-\$1,666)
Clerk Steno III, Secondary Education, (\$1,326-\$1,666)
Clerk Steno III, Computing Science, (\$1,326-\$1,666)
Clerk Typist III, Office of the Dean of Student Services, (\$1,326-\$1,666)
Clerk Typist III, Faculté Saint-Jean, (\$1,326-\$1,666)
Clerk Typist III, Student Counselling Services, (\$1,326-\$1,666)
Senior Financial Records Clerk, Chemical Engineering, (\$1,326-\$1,666)
Data Entry Operator II (Part-Time Term), Educational Research Services, (\$686-\$870)
Accounts Clerk (Part-Time-17.5 hours/week), Home Economics, (\$739-\$944)
Secretary, Dentistry (Stomatology), (\$1,478-\$1,888)
Administrative Clerk (to 31 March 1987), Office of Research Services, (\$1,478-\$1,888)
Medical Steno, Pediatrics, (\$1,478-\$1,888)
Medical Steno, Medicine, (\$1,478-\$1,888)
Executive Secretary (Trust, Term to 30 June 1987) R.S. McLaughlin Examination and Research Centre, (\$1,666-\$2,144)
Executive Secretary, Personnel Services and Staff Relations, (\$1,666-\$2,144)
Publications Assistant II (Trust, Part-Time—20 hours/week), Medical Publications, (\$952-\$1,225)
Building Services Worker III, Physical Plant—Building Services, (\$1,478-\$1,888)
Technician I, Provincial Laboratory, (\$1,534-\$1,968)
Audiovisual Technician I, Instructional Technology Centre, (\$1,534-\$1,968)
Technician I (Part-Time, Trust), Psychiatry, (\$767-\$984)
Storeman II (40 hours/week), Housing and Food Services, (\$1,629-\$2,069)

Garneau/University Child Care Centre

Location: Garneau School

We are presently accepting applications for children 2½ to 5 years of age.
—Subsidies available to qualifying families.
—Scheduled summer opening: **July, 1986**
Outstanding child care combined with educational program.
Well qualified staff.
Excellent school facility.
Standards well above provincial requirements.
Apply Soon

Application Forms and Brochures are available at Garneau School. (in main office)



Technician II, Pathology, (\$1,739-\$2,237)
 Art Technician Demonstrator I, Art and Design, (\$1,810-\$2,337)
 Laboratory Technologist I, Provincial Laboratory, (\$1,888-\$2,437)
 Communications Control Centre Operator, Physical Plant, (\$1,968-\$2,548)
 Millwright, Physical Plant, (\$3,079)

For vacant library positions, please contact the Library Personnel Office, Basement, Cameron Library, 432-3339.

Advertisements

Accommodations available

- Sale - Immaculate, charming bungalow close to University. Garage, deck, \$59,900. Jiri, 459-7829, 483-1255, Johnston's.
- For sale or rent - Two-bedroom cottage. Mulhurst (Pigeon Lake). Winterized, modern plumbing, wood stove. Phone Barb Clubb, 427-2556, 439-3237.
- Rent - University Avenue, duplex. Large living room, five appliances, powder room, deck. Upstairs three bedrooms, four-piece bath, carpet, drapes. \$675/month. One-year lease. Phone 432-0568.
- Sale - Lakefront, Kapisawin Beach. \$84,500. Four bedrooms with view across lake. Features fireplace, three-piece bath, wooded lot, sandy beach, boathouse, bunkhouse. Eleanor Duncan, Royal LePage, 434-7368, 438-4700.
- For sale - Riverbend. Across from the park. Eight-room home. Fireplace, south garden, deck, double garage. Under \$135,000. Eleanor Duncan, Royal LePage, 434-7368, 438-4700.
- Sale - Parkallen bungalow, low maintenance home. Two, brick fireplaces, convenient to downtown and University. Working kitchen and large pantry. Two baths, garage. \$84,500. Call Larry or Pat at ReMax, 464-4100.
- Sale - Lendrum gem. Three-bedroom bungalow. Upgraded, oak kitchen, fireplace, developed basement. \$88,900. Call Joyce Byrne, 435-6064, 436-5250. Spencer's.
- For sale - Mill Creek. Two-storey, older home, completely renovated, on lot and half. Priced to sell at \$79,900. Call Wayne Moen, 438-1575, 477-3688. ReMax Real Estate.
- For sale - Garneau Mews. Luxury townhouse, half block to campus. Two bedrooms, underground parking, fireplace. Call Wayne Moen, 438-1575, 477-3688. ReMax Real Estate.
- Sale - Owner. Secure, two-bedroom plus den, patioed, luxury condominium. 11115 80 Ave. Customized windows, kitchen, bathroom, closets, fireplace. Six appliances, underground parking, storage. Exceptionally maintained building, grounds. \$99,500. Messages, 428-6394.
- Sale - Windsor Park. Spacious, three-bedroom bungalow. Immaculate, well maintained, beautifully landscaped, walk to University. Sheila LaBelle, 430-6303, 432-1378. Bennett Realty.
- Sale - Riverbend. Two-storey, three-bedroom, family room, fireplace. Spacious, open plan. Double, attached garage. Only \$126,500. Sheila LaBelle, 430-6303, 432-1378. Bennett Realty.
- Sale - Parkallen. Three-bedroom semi. Nicely developed basement. Close to park, schools. Pat von Borstel, 437-6540, 436-5250. Spencer's.
- Sale - Belgravia. New listing, Belgravia, south yard, immaculate, three-bedroom home. Hardwood floors, fireplace, super kitchen. Pat von Borstel, 437-6540, 436-5250. Spencer's.
- For rent - Three-room apartment, own entrance, three blocks from University. \$380 monthly. Older person preferred. 433-4870.
- Sale - Two, three-acre parcels, adjacent, fully treed, serviced. Four miles east Onoway. \$13,500 each, \$24,000 both. Call 437-7720 evenings.
- For lease - (With option to buy). Large, 16th floor condo., overlooking Legislature Buildings. Two bedrooms, two bathrooms, five appliances. Phone 423-0161 after 6 p.m.
- Sale - Lakefront. Attractive building site on large, wooded lot. View across lake, sandy beach, Kapisawin. \$75,000. Eleanor Duncan, Royal LePage, 438-4700, 434-7368.
- Rent - Furnished, basement suite. July and August. Only \$250/month. Private entrance, bathroom, washer, dryer. 10923 86 Ave. 433-3255.
- Sale - Riverfront. Upgraded home. 1,100'. Chris Tenove, 433-5664, 436-5250. Spencer's.
- Sale - Grandview. Executive home. Large rooms, immaculate. Chris Tenove, 433-5664, 436-5250. Spencer's.
- Sale - Windsor Park. Cozy, immaculate home. Ideal University location. Chris Tenove, 433-5664, 436-5250. Spencer's.
- Sale - 160 acres. \$25,900. Recreation hideaway. Chris Tenove, 433-5664, 436-5250. Spencer's.
- Sale - Brander Gardens special. Attractive, immaculate home. Owner transferred. Chris Tenove, 433-5664, 436-5250. Spencer's.
- Sale - Residential, city lots. Chris Tenove, 433-5664, 436-5250. Spencer's.

Accommodations wanted

Wanted to rent: Three-bedroom house/townhouse. Southwest. August/September. U.A.H. physician and family. Non-smokers. No pets. Reply: 13830 Ravine Drive, Edmonton, Alberta T5N 3M1.

Visiting professor, wife, two pre-schoolers, optional cat need unfurnished, 2-3 bedroom house/suite in family neighborhood. Easy access to University. Twelve months commencing end August/September. (218) 233-8430.

Automobiles and others

1979 Pontiac Parisienne stationwagon. 350V8 A.C. Loaded, well maintained. \$2,900. 437-1138.

Goods for sale

\$40 off new electric typewriters, correcting key, \$199; \$75 off new electronic typewriter, computer interface included, \$655. Mark 9, HUB Mall, 432-7936.

Reconditioned correcting IBM Selectric II typewriters, 4-8 years old, 3-month warranty. \$449-\$549. Mark 9, HUB Mall.

Deilcraft, lower drawer unit bookcase, cherry, excellent condition. Phone 436-0842 after 5:30 p.m.

Wanted - Commodore 128 or Apple IIE with printer for word processing. 463-5424.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf. 11610 75 Avenue. 436-8059.

Professional typist - Word processing. Specializing in theses and dissertations. Gwen, 467-9064.

Tis the thesis season. Unbeatable service on letters, résumés, term papers and theses. Word processed and copied with Mark 9 quality. Open evenin Saturdays, 432-7936.

Professional typing, \$1.10/page. Phone 435-3398.

Rent a correcting electronic typewriter. Day (\$15), weekend (\$20), week (\$35), month (\$65) or longer (\$50/month). Open evenings, Saturdays. Mark 9, HUB Mall, 432-7936.

Typing and word processing done at a reasonable rate. Will pick up and deliver. Please call 463-3714.

Live-in nanny available January. Call 438-3482 evenings.

E.T. Seamstress & Tailors. 11904 127 Ave. General alterations specialist. Phone 451-0087. (We have the technology).

Professional seamstress and tailors.

Made to order garments. General alterations. 469-6292, consultant Phil.

Expo visitors - Bed and breakfast, near UBC. \$35/night. 433-5019 or (604) 263-6776.

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Students' Union Building, 2nd Floor
 Opens for Breakfast at 7:30

BREAKFAST SPECIALS

Bacon and Eggs, Toast and Coffee
 or
 2 Topping Omelet, Toast and Coffee
 \$1.95

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 Small group (8)
 \$325

Children

Mornings 9-12
 3wks July 7-25
 Small class (12)
 \$105

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Inquire at 433-0671
 #305 8540-109 str.

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432-4435

W1-55, Van Vliet Centre

Inquire About Fee Remission Forms